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NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2	Apr 08	"Ask CAS" for self-help around the clock
NEWS 3	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4	Apr 09	ZDB will be removed from STN
NEWS 5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS 8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS 9	Jun 03	New e-mail delivery for search results now available
NEWS 10	Jun 10	MEDLINE Reload
NEWS 11	Jun 10	PCTFULL has been reloaded
NEWS 12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS 13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS 14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS 15	Jul 30	NETFIRST to be removed from STN
NEWS 16	Aug 08	CANCERLIT reload
NEWS 17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18	Aug 08	NTIS has been reloaded and enhanced
NEWS 19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS 20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS 23	Sep 03	JAPIO has been reloaded and enhanced
NEWS 24	Sep 16	Experimental properties added to the REGISTRY file
NEWS 25	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS 26	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS 27	Oct 21	EVENTLINE has been reloaded
NEWS 28	Oct 24	BEILSTEIN adds new search fields
NEWS 29	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 30	Oct 25	MEDLINE SDI run of October 8, 2002
NEWS 31	Nov 18	DKILIT has been renamed APOLLIT
NEWS 32	Nov 25	More calculated properties added to REGISTRY
NEWS 33	Dec 02	TIBKAT will be removed from STN
NEWS 34	Dec 04	CSA files on STN
NEWS 35	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 36	Dec 17	TOXCENTER enhanced with additional content
NEWS 37	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS 38	Dec 30	ISMEC no longer available
NEWS 39	Jan 13	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 40	Jan 21	NUTRACEUT offering one free connect hour in February 2003
NEWS 41	Jan 21	PHARMAML offering one free connect hour in February 2003
NEWS 42	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS 43	Feb 13	CANCERLIT is no longer being updated
NEWS 44	Feb 24	METADEX enhancements
NEWS 45	Feb 24	PCTGEN now available on STN
NEWS 46	Feb 24	TEMA now available on STN
NEWS 47	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS 48	Feb 26	PCTFULL now contains images
NEWS 49	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results

NEWS EXPRESS	January 6 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
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FILE 'HOME' ENTERED AT 10:39:39 ON 10 MAR 2003

=> file caplus

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FILE COVERS 1907 - 10 Mar 2003 VOL 138 ISS 11
FILE LAST UPDATED: 9 Mar 2003 (20030309/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s (mixed or asymmetrical or unsymmetrical) anhydride?
MISSING OPERATOR METRICAL) ANHYDRIDE?
The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s mixed anhydride? or asymmetrical anhydride? or unsymmetrical anhydride?
685170 MIXED
6 MIXEDS

UPDATED SEARCH TRANSCRIPT
09/870,676
- DON'T REMOVE -

```
        685174 MIXED
                 (MIXED OR MIXEDS)
        187574 ANHYDRIDE?
          3811 MIXED ANHYDRIDE?
                 (MIXED(W)ANHYDRIDE?)
          2258 ASYMMETRICAL
             1 ASYMMETRICALS
          2259 ASYMMETRICAL
                 (ASYMMETRICAL OR ASYMMETRICALS)
         95246 ASYM
             6 ASYMS
         95249 ASYM
                 (ASYM OR ASYMS)
         96248 ASYMMETRICAL
                 (ASYMMETRICAL OR ASYM)
        187574 ANHYDRIDE?
             5 ASYMMETRICAL ANHYDRIDE?
                 (ASYMMETRICAL(W)ANHYDRIDE?)
          4193 UNSYMMETRICAL
         13046 UNSYM
         14893 UNSYMMETRICAL
                 (UNSYMMETRICAL OR UNSYM)
        187574 ANHYDRIDE?
            29 UNSYMMETRICAL ANHYDRIDE?
                 (UNSYMMETRICAL(W)ANHYDRIDE?)
L1        3838 MIXED ANHYDRIDE? OR ASYMMETRICAL ANHYDRIDE? OR UNSYMMETRICAL
               ANHYDRIDE?

=> s l1 and amino acid?
        902658 AMINO
            41 AMINOS
        902675 AMINO
                 (AMINO OR AMINOS)
       4216179 ACID?
        575034 AMINO ACID?
                 (AMINO(W)ACID?)
L2         794 L1 AND AMINO ACID?

=> s l2 and organic base
        288761 ORGANIC
          3332 ORGANICS
        290934 ORGANIC
                 (ORGANIC OR ORGANICS)
        793059 ORG
         12217 ORGS
        797321 ORG
                 (ORG OR ORGS)
        888349 ORGANIC
                 (ORGANIC OR ORG)
        562692 BASE
        130748 BASES
        644042 BASE
                 (BASE OR BASES)
          8023 ORGANIC BASE
                 (ORGANIC(W)BASE)
L3           5 L2 AND ORGANIC BASE

=> d 1-5

L3   ANSWER 1 OF 5  CAPLUS  COPYRIGHT 2003 ACS
AN   1994:630588  CAPLUS
DN   121:230588
TI   An improved process for the preparation of 6-.alpha.-aminopenicillins in
     nonhalogenated solvents
IN   Ferrero Barruelo, Oscar; Lopez Ortiz, Juan F.; Vitaller Alba, Alejandro;
     Salto Maldonado, Francisco; Nieves Elvira, Rosa Maria
PA   Antibioticos, S.A., Spain
SO   Span., 6 pp.
     CODEN: SPXXAD
DT   Patent
LA   Spanish
FAN.CNT 1
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   ES 2050621         A1   19940516       ES 1992-2244     19921106
     ES 2050621         B1   19941216
PRAI ES 1992-2244              19921106
OS   CASREACT 121:230588

L3   ANSWER 2 OF 5  CAPLUS  COPYRIGHT 2003 ACS
AN   1982:200183  CAPLUS
DN   96:200183
TI   Tyrosine derivatives
IN   Kaufmann, Klaus Dieter; Keilert, Manfred; Scholtipsek, Peter
PA   Ger. Dem. Rep.
SO   Ger. (East), 13 pp.
     CODEN: GEXXA8
DT   Patent
LA   German
FAN.CNT 1
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   DD 151304          Z    19811014       DD 1980-221677   19800609
PRAI DD 1980-221677            19800609

L3   ANSWER 3 OF 5  CAPLUS  COPYRIGHT 2003 ACS
AN   1971:406264  CAPLUS
DN   75:6264
TI   Peptides. VIII. .beta.-Dicarbonyl N-protected amino
     acids and model dipeptides
AU   Balog, Anton; Breazu, D.; Vargha, Eugen; Gonczy, F.; Beu, Lucia
CS   Inst. Chem. Pharm. Res., Cluj, Rom.
SO   Revue Roumaine de Chimie (1970), 15(9), 1375-90
     CODEN: RRCHAX; ISSN: 0035-3930
DT   Journal
LA   English

L3   ANSWER 4 OF 5  CAPLUS  COPYRIGHT 2003 ACS
AN   1965:463473  CAPLUS
DN   63:63473
OREF 63:11688e-h,11689a-d
TI   Colored activated esters. IV. Reactions of Cbo-L-glutamic acid anhydride
     with 4-(4-chlorophenylazo)phenol
AU   Barth, Alfred
CS   Univ. Halle-Wittenberg, Germany
SO   Ann. Chem. (1965), 686, 221-6
DT   Journal
LA   German

L3   ANSWER 5 OF 5  CAPLUS  COPYRIGHT 2003 ACS
AN   1965:44195  CAPLUS
DN   62:44195
OREF 62:7857h,7858a-b
TI   Separation of organic bases by Craig partition. V.
     Synthesis and separation of aminoacylephedrine isomers, a new class of
     local anesthetics
AU   Schoenenberger, H.; Brinkmann, R.; Bamann, E.
CS   Univ. Munich, Germany
SO   Arch. Pharm. (1964), 297(12), 721-7
DT   Journal
```

LA German

=> d abs 3

L3 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS
AB The Dane procedure (1964) for N-blocking of **amino acids** with .beta.-dicarbonyl compds. AcCH2COR [R = OEt, Me, Ph, C6H3(OMe)2] or 2-carbethoxycyclopentanone was modified: the Na or K salt of the dicarbonyl compds. was treated with **amino acids** (e.g., glycine, alanine, valine, leucine, phenylglycine, etc.) to give forty-four N-blocked **amino acid** salts (Na or K) without racemization. The N-blocked **amino acids** salts were also converted into salts with **org. bases**, e.g., dicyclohexylamine, piperidine, N-methylmorpholine, etc. These N-protected **amino acid** salts, when treated with dil. HCl, formed the corresponding N-blocked free **amino acids**, the blocking groups were hydrolyzed at lower pH (<3.5). The N-protected salts were coupled with Et glycinate, by a **mixed anhydride** method, to give the corresponding dipeptides.

=> s l2 and (phosphate or sulfate or sulphate or carboxylic)
474333 PHOSPHATE
107214 PHOSPHATES
516381 PHOSPHATE
(PHOSPHATE OR PHOSPHATES)
424027 SULFATE
79148 SULFATES
464097 SULFATE
(SULFATE OR SULFATES)
3555 SULPHATE
591 SULPHATES
3979 SULPHATE
(SULPHATE OR SULPHATES)
201758 CARBOXYLIC
47 CARBOXYLICS
201777 CARBOXYLIC
(CARBOXYLIC OR CARBOXYLICS)
L4 128 L2 AND (PHOSPHATE OR SULFATE OR SULPHATE OR CARBOXYLIC)

=> s l4 and amino acid anhydride?
902658 AMINO
41 AMINOS
902675 AMINO
(AMINO OR AMINOS)
3567624 ACID
1359328 ACIDS
4030256 ACID
(ACID OR ACIDS)
187574 ANHYDRIDE?
385 AMINO ACID ANHYDRIDE?
(AMINO(W)ACID(W)ANHYDRIDE?)
L5 5 L4 AND AMINO ACID ANHYDRIDE?

=> d 1-5

L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS
AN 1999:8638 CAPLUS
DN 130:153956
TI Oligomerization of N,O-Bis(trimethylsilyl)-.alpha.-**amino Acids** into Peptides Mediated by o-Phenylene Phosphorochloridate
AU Fu, Hua; Li, Zhao-Long; Zhao, Yu-Fen; Tu, Guang-Zhong
CS Bioorganic Phosphorus Chemistry Laboratory Department of Chemistry, Tsinghua University, Beijing, 100084, Peop. Rep. China
SO Journal of the American Chemical Society (1999), 121(2), 291-295
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS
AN 1993:473047 CAPLUS
DN 119:73047
TI Studies on the disproportionation of **mixed anhydrides** of N-alkoxycarbonylamino acids
AU Benoiton, N. Leo; Lee, Young C.; Chen, Francis M. F.
CS Dep. Biochem., Univ. Ottawa, Ottawa, ON, Can.
SO International Journal of Peptide & Protein Research (1993), 41(4), 338-41
CODEN: IJPPC3; ISSN: 0367-8377
DT Journal
LA English

L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS
AN 1986:19791 CAPLUS
DN 104:19791
TI A kinetic study of phosphinic **carboxylic mixed anhydrides**
AU Ramage, Robert; Atrash, Butrus; Hopton, David; Parrott, Maxwell J.
CS Dep. Chem., Univ. Manchester Inst. Sci. Technol., Manchester, M60 1QD, UK
SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1985), (8), 1617-22
CODEN: JCPRB4; ISSN: 0300-922X
DT Journal
LA English
OS CASREACT 104:19791

L5 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS
AN 1982:104376 CAPLUS
DN 96:104376
TI Design of organophosphorus reagents for peptide synthesis
AU Ramage, R.; Atrash, B.; Parrott, M. J.
CS Inst. Sci. Technol., Univ. Manchester, Manchester, M60 1QD, UK
SO ACS Symposium Series (1981), 171(Phosphorus Chem.), 199-204
CODEN: ACSMC8; ISSN: 0097-6156
DT Journal
LA English

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS
AN 1963:53698 CAPLUS
DN 58:53698
OREF 58:9222e-h
TI Aqueous polymerization of N-carboxy-.alpha.-**amino acid anhydrides**
AU Miwa, Thomas K.; Stahmann, Mark A.
CS U.S. Dept. of Agr., Peoria, IL
SO Polyamino Acids, Polypeptides, Proteins, Proc. Intern. Symp., Madison, Wisc. (1962), 1961, 81-92
DT Journal
LA Unavailable

=> d abs 3

L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS
AB The kinetics of disproportionation of phosphinic **carboxylic mixed anhydrides** derived from protected .alpha.-**amino acids** were studied by 32.4 MHz 31P NMR

spectroscopy as a function of the P substituents and the structure of the **amino acid**. The rates of disproportionation are insignificant from a preparative aspect compared with aminolysis at 0.degree..

=> d abs 5

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS
AB cf. CA 50, 12822c. The effect of ions on polymerization of N-carboxyleucine anhydride in aq. systems was followed by allowing the polymerization to occur in the presence of various ions at different concns. and detg. their effects on turbidity formation, the extent of polymerization (detd. at the end of the reaction as the fraction not hydrolyzed to the parent **amino acid** by colorimetric ninhydrin), and the rate of N-carboxy **amino acid anhydride** uptake (based on an anhydride analysis using a colorimetric ferric hydroxamate method). The anions studied included PO4---, HCO3-, cacodylate, and Cl-; the cations were Na+, Li+, and Ca+. The common cation for the anions was Na+, while the common anion for the cations was Cl-. NH3, L-leucine, and nucleic acids were also studied. The extent of polymerization increased with increase in concn. of the ion until an optimum concn. of the ion was reached, after which polymerization decreased with increase in ionic concn. In most cases the rate of uptake of the N-carboxy **amino acid anhydride** increased with increase in the concn. of the ion. Exceptions were the chlorides of Na, Li, and H, which showed decreases at higher concns. NaOH, at concns. .ltoreq. that of the anhydride, was very effective in causing fast polymerization, while HCl, at concns. .gtoreq. that of the anhydride, inhibited the rate and extent of polymerization markedly. Deoxyribonucleic and ribonucleic acids produced max. amts. of polymers when the equiv. concn. of the nucleotide **phosphate** was equal to the molar concn. of the N-carboxy **amino acid anhydride**. Propagation rate constants for these pseudo 1st order reactions were detd. and the results showed NaOH solns. to have the highest rate constants and HCl solns. the lowest. The effects of the ions, especially the anions, were explained by postulation of a mechanism of polymerization involving a **mixed anhydride** intermediate of the particular anion and the N-carboxy **amino acid**. A by-product predicted by this mechanism was isolated, neutral benzoate being used as the anion. The by-product of the polymerization, benzoylleucine, which was isolated by silica gel column chromatography, was apparently formed by means of a **mixed anhydride** of the benzoate anion and N-carboxyleucine.

=> d abs 1

L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS
AB N,O-Bis(trimethylsilyl)-.alpha.-**amino acids**, mediated by o-phenylene phosphorochloridate (PPC), could oligomerize into polypeptides. The mechanism might go through sequential steps, i.e., the activation of **amino acid**, the elongation of peptide chain, and the termination of elongation reaction, as can be traced by 31P NMR spectroscopy. The activated **amino acid** was a five-membered cyclic pentacoordinate phosphoric-**carboxylic mixed anhydride**. The nucleophilic attack of the amino group of an **amino acid** or a peptide on the carbonyl group of the intermediate led to the formation of peptide with release of a **phosphate** ester. The repetition of the reaction sequence generated successively longer N,O-bis(trimethylsilyl)peptides, which were then hydrolyzed to give a series of oligopeptides. It is worth noting that only the N,O-bis(trimethylsilyl)-.alpha.-**amino acids**, not the N,O-bis(trimethylsilyl)-.beta.-**amino acids**, could be activated and assemble into polypeptides. The mechanism of the five-membered cyclic pentacoordinate phosphoric-**amino acid anhydride** intermediate showed that phosphorus could choose .alpha.-**amino acids** in the prebiotic synthesis of polypeptides and biosynthesis of proteins.

=> log hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	55.82	56.03
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.60	-2.60

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FULL ESTIMATED COST	55.82	56.03
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.60	-2.60

=> d his

(FILE 'HOME' ENTERED AT 10:39:39 ON 10 MAR 2003)

FILE 'CAPLUS' ENTERED AT 10:39:52 ON 10 MAR 2003
L1 3838 S MIXED ANHYDRIDE? OR ASYMMETRICAL ANHYDRIDE? OR UNSYMMETRICAL
L2 794 S L1 AND AMINO ACID?
L3 5 S L2 AND ORGANIC BASE
L4 128 S L2 AND (PHOSPHATE OR SULFATE OR SULPHATE OR CARBOXYLIC)
L5 5 S L4 AND AMINO ACID ANHYDRIDE?

=> s amino acid? and (chloroformate or chlorocarbonate)
902658 AMINO
41 AMINOS
902675 AMINO
(AMINO OR AMINOS)
4216179 ACID?
575034 AMINO ACID?
(AMINO(W)ACID?)
17403 CHLOROFORMATE
1610 CHLOROFORMATES
17983 CHLOROFORMATE
(CHLOROFORMATE OR CHLOROFORMATES)
1274 CHLOROCARBONATE

```
          164 CHLOROCARBONATES
         1365 CHLOROCARBONATE
                (CHLOROCARBONATE OR CHLOROCARBONATES)
L6       1388 AMINO ACID? AND (CHLOROFORMATE OR CHLOROCARBONATE)

=> s l6 and (morpholine or nmm)
        27291 MORPHOLINE
         1130 MORPHOLINES
        27756 MORPHOLINE
                (MORPHOLINE OR MORPHOLINES)
          743 NMM
            7 NMMS
          750 NMM
                (NMM OR NMMS)
L7          58 L6 AND (MORPHOLINE OR NMM)

=> s l7 and addition
       123742 ADDITION
        13904 ADDITIONS
       135217 ADDITION
                (ADDITION OR ADDITIONS)
      1311202 ADDN
        66030 ADDNS
      1353333 ADDN
                (ADDN OR ADDNS)
      1420193 ADDITION
                (ADDITION OR ADDN)
L8           6 L7 AND ADDITION

=> d 1-6

L8   ANSWER 1 OF 6  CAPLUS  COPYRIGHT 2003 ACS
AN   1994:77613  CAPLUS
DN   120:77613
TI   Asymmetric synthesis of .alpha.-amino acids via
     cationic aza-Cope rearrangements
AU   Agami, Claude; Couty, Francois; Lin, Jing; Mikaeloff, Axelle; Poursoulis,
     Michel
CS   Lab. Chim. Org., Univ. P.et M. Curie, Paris, 75005, Fr.
SO   Tetrahedron (1993), 49(33), 7239-50
     CODEN: TETRAB; ISSN: 0040-4020
DT   Journal
LA   English
OS   CASREACT 120:77613

L8   ANSWER 2 OF 6  CAPLUS  COPYRIGHT 2003 ACS
AN   1990:612691  CAPLUS
DN   113:212691
TI   Preparation of renin-inhibitory peptides containing difluoromethylene
     amide bond replacements.
IN   Schirlin, Daniel
PA   Merrell Dow Pharmaceuticals, Inc., USA
SO   Eur. Pat. Appl., 23 pp.
     CODEN: EPXXDW
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.         KIND  DATE           APPLICATION NO.   DATE
     ---------------    ----  --------       ---------------   --------
PI   EP 371179          A1    19900606       EP 1988-402735    19881028
        R:  FR
     CA 2001265         AA    19900428       CA 1989-2001265   19891023
     CA 2001265         C     20010501
     ZA 8908026         A     19900725       ZA 1989-8026      19891023
     IL 92102           A1    19940731       IL 1989-92102     19891024
     DK 8905375         A     19900429       DK 1989-5375      19891027
     NO 8904300         A     19900430       NO 1989-4300      19891027
     AU 8943867         A1    19900503       AU 1989-43867     19891027
     AU 622723          B2    19920416
     EP 368719          A2    19900516       EP 1989-402976    19891027
     EP 368719          A3    19911002
     EP 368719          B1    19970108
        R:  AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE
     HU 51649           A2    19900528       HU 1989-5473      19891027
     HU 209311          B     19940428
     JP 02172961        A2    19900704       JP 1989-278753    19891027
     JP 2899327         B2    19990602
     FI 95272           B     19950929       FI 1989-5109      19891027
     FI 95272           C     19960110
     AT 147405          E     19970115       AT 1989-402976    19891027
     ES 2099072         T3    19970516       ES 1989-402976    19891027
     CN 1043504         A     19900704       CN 1989-108935    19891028
     CN 1031880         B     19960529
     US 5114927         A     19920519       US 1991-759057    19910905
PRAI EP 1988-402735     A     19881028
     US 1989-422255     B1    19891016
OS   MARPAT 113:212691

L8   ANSWER 3 OF 6  CAPLUS  COPYRIGHT 2003 ACS
AN   1990:99261  CAPLUS
DN   112:99261
TI   Preparation of N-(phosphonocyclohexylhydroxypropyl) derivatives of
     amino acids and dipeptides as renin inhibitors
IN   Patel, Dinesh V.
PA   Squibb, E. R., and Sons, Inc., USA
SO   Eur. Pat. Appl., 121 pp.
     CODEN: EPXXDW
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.         KIND  DATE           APPLICATION NO.   DATE
     ---------------    ----  --------       ---------------   --------
PI   EP 331105          A2    19890906       EP 1989-103489    19890228
     EP 331105          A3    19900905
        R:  AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE
     WO 8907940         A1    19890908       WO 1989-US777     19890223
        W:  DK, HU, JP
     HU 52785           A2    19900828       HU 1989-2302      19890223
     JP 02503440        T2    19901018       JP 1989-503323    19890223
     ZA 8901594         A     19891129       ZA 1989-1594      19890301
     AU 8930999         A1    19890907       AU 1989-30999     19890302
     DK 8905469         A     19891227       DK 1989-5469      19891102
     US 5217958         A     19930608       US 1990-509398    19900412
PRAI US 1988-163593             19880303
     WO 1989-US777              19890223
     US 1989-317257             19890228
OS   MARPAT 112:99261

L8   ANSWER 4 OF 6  CAPLUS  COPYRIGHT 2003 ACS
AN   1989:614942  CAPLUS
DN   111:214942
TI   Preparation of renin-inhibiting peptidylheterocycles and their
     intermediates for treatment of hypertension
IN   Rosenberg, Saul Howard; Sham, Hing Leung; Baker, William R.; Dellaria,
     Joseph F., Jr.; Kempf, Dale J.
PA   Abbott Laboratories, USA
SO   Eur. Pat. Appl., 103 pp.
     CODEN: EPXXDW
DT   Patent
LA   English
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FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 307837	A2	19890322	EP 1988-114867	19880912
	EP 307837	A3	19911211		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	AU 8822223	A1	19890420	AU 1988-22223	19880914
	AU 613956	B2	19910815		
	JP 01221357	A2	19890904	JP 1988-231430	19880914
	DK 8805146	A	19890317	DK 1988-5146	19880915
PRAI	US 1987-97553		19870916		
	US 1988-231869		19880816		
OS	MARPAT 111:214942				

L8 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2003 ACS
AN 1989:173760 CAPLUS
DN 110:173760
TI Preparation of renin-inhibiting peptides
IN Hagenbach, Alexander; Metternich, Rainer; Pfenniger, Emil; Weidmann, Beat
PA Sandoz A.-G., Switz.
SO Brit. UK Pat. Appl., 88 pp.
CODEN: BAXXDU
DT Patent
LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2200115	A1	19880727	GB 1988-1040	19880118
	GB 2200115	B2	19901114		
	NL 8800100	A	19880816	NL 1988-100	19880118
	CH 676988	A	19910328	CH 1988-157	19880118
	FR 2609716	A1	19880722	FR 1988-636	19880119
	DK 8800225	A	19880722	DK 1988-225	19880119
	AU 8810375	A1	19880901	AU 1988-10375	19880119
	BE 1002212	A5	19901016	BE 1988-67	19880119
	SE 8800169	A	19880722	SE 1988-169	19880120
	JP 01019053	A2	19890123	JP 1988-10571	19880120
	ZA 8800415	A	19890927	ZA 1988-415	19880121
PRAI	DE 1987-3701526		19870121		
	DE 1987-3707339		19870307		
OS	MARPAT 110:173760				

L8 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2003 ACS
AN 1959:99544 CAPLUS
DN 53:99544
OREF 53:17916b-i,17917a-d
TI Cytoactive **amino acids** and peptides. VII. Derivatives of serine and threonine
AU Bergel, F.; Wade, Roy
CS Roy. Cancer Hosp., London
SO J. Chem. Soc. (1959) 941-7
DT Journal
LA Unavailable

=> d abs 6

L8 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2003 ACS
AB cf. C.A. 53, 12201e. **Amino acid** derivs. carrying the "nitrogen mustard" radical as an amido group were synthesized in the form of O-[N,N-bis(2-chloroethyl)carbamoyl]-DL- and -L-serine (I) (II) and -DL-threonine (III). A no. of other N-substituted O-carbamoylserines were prepd. The N-benzyloxycarbonyl- (IV) and N-(p-nitrobenzyloxycarbonyl)threonine (V), and to a smaller extent the corresponding serine compds. (VI), (VII), produced oxazolidones on treatment with alkali. In view of the contrasting biol. behavior of the I-III, the hydrolysis of these compds. in vitro was studied and iso-Pr N,N-bis(2-chloroethyl)carbamate (VIII) was synthesized. VIII, like III, was inactive in antitumor tests while I and the "ethyl carbamate mustards" showed remarkable activity. VI prepd. (83%) and esterified gave a crude product which heated 0.5 hr. at 100-20.degree./1 mm. gave benzyloxycarbonyl-DL-serine benzyl ester (IX), m. 73-4.degree. (Et2O-ligroine). Benxyloxycarbonyl-L-serine benzyl ester (X) prepd. as above m. 82-3.degree. (Et2O). COCl2 was passed 20 min. at 0.degree. into a suspension of 10 g. IX or X in 200 ml. C6H6 or PhMe, stirred 3 hrs., dry N bubbled through until all HCl and COCl2 had been removed, and the solvent evapd. below 40.degree.. No attempt was made to crystallize the crude N-benzyloxycarbonyl-O-chlorocarbonyl-DL- and L-serine benzyl esters (XI), (XII) which were used in the coupling expts. Solns. of XI or XII in C6H6 (about 3 ml./g.) cooled during **addn.** of 2.3 equivs. of various bases in Et2O (5 ml./g.), the solns. kept at room temp. overnight, washed with dil. acid, NaHCO3 soln. H2O, dried, and evapd. at 35.degree. in vacuo gave 71% PhCH2O2CNHCH[CH2O2CN(CH2CH2Cl)2CO2Me], m. 70-1.degree., 83% L-isomer, m. 54-5.degree., 75% PhCH2O2CNHCH(CH2OCNHCH2CH2Cl)CO2CH2Ph, m. 102-3.degree., 82% PhCH2O2CNHCH(CH2O2CNPr2)CO2CH2Ph, m. 56-7.degree.. DL-Serine Me ester-HCl m. 134.degree. (decompn.). VI Me ester bl 178-83.degree.. VI Me ester (7 g.) converted into the O-chlorocarbonyl deriv. in the same way as the benzyl ester as described above and this coupled in 40 ml. C6H6 with 9.5 g. HN(CH2CH2Cl)2 gave 63% N-benzyloxycarbonyl-O-[N,N-bis(2-chloroethyl)-carbamoyl]-DL-serine Me ester, m. 79-80.degree.. IV prepd. from 10 g. DL-threonine (not obtained cryst.) and converted (18.9 g.) into the benzyl ester directly by refluxing 8 hrs. under a H2O trap with 18 ml. PhCH2OH, 180 ml. C6H6, and 0.5 g. p-MeC6H4SO3H gave 49% IV benzyl ester, m. 63-4.degree. (Et2O-ligroine). DL-Threonine (2.4 g.) in 5 ml. 4N NaOH treated portionwise at 5.degree. with 3.8 g. benzyl **chloroformate**, the pH maintained at 8-10 by **addn.** of 2N NaOH, the mixt. shaken 1 hr., extd. with EtOAc, and the solvent evapd. gave 52% 5-methyl-2-oxooxazolidine-4-carboxylic acid (XIII), prisms, m. 123-4.degree. (EtOAc-ligroine). IV-VII (0.01 mole) in 10 ml. 2N NaOH shaken several min. at room temp., the mixt. extd. with EtOAc, the aq. layer acidified, the soln. extd. with EtOAc, dried, and evapd. gave crude product. Trituration with ligroine and recrystn. of the solids from EtOAc-ligroine gave pure products. IV and V gave XIII. XIII (0.5 g.) refluxed 6 hrs. with 10 ml. concd. HCl, the residue dissolved in 5 ml. alc., and treated with 0.5 ml. **morpholine** gave 350 mg. threonine, m. 236.degree. (decompn.). The **amino acid** was benzoylated and the N-Bz deriv. obtained as rods, m. 144-5.degree., identical with N-benzoyl-DL-threonine. IX (6.8 g.) in 70 ml. C6H6 treated 20 min. at 5.degree. with 2.53 ml. PhNMe2 and COCl2, stirred 4 hrs. at room temp., left overnight, the PhNMe2.HCl removed by washing with dil. acid, the org. layer dried, and treated 3 hrs. with 6.2 g. HN(CH2CH2Cl)2 gave 65% N-benzyloxycarbonyl-O-[N,N-bis(2-chloroethyl)carbamoyl]-DL-threonine benzyl ester, m. 80-1.degree.. An attempted prepn. by the method successfully applied to the serine deriv. gave only a 3% yield. This was sepd. by passing in C6H6 through Al2O3. Repetition of this prepn. with COCl2 and the OH compd. 2 weeks gave 37% yield. Substituted O-carbamoyl-DL- and -L-serine and -DL-threonine derivs. were prepd. as follows. The fully protected carbamate derivs. (8-10 g.) were dissolved in 200 ml. MeOH, hydrogenolyzed with 200 mg. 5% Pd-C, the catalyst removed, and the solvent evapd. In the case of N-benzyloxycarbonyl-O-[N,N-bis(2-chloroethyl)-carbamoyl]-DL-serine Me ester, concd. HCl was added to the MeOH soln. before hydrogenolysis and the produced isolated as the HCl salt. The following results were obtained: 82% I, m. 140.degree.; 89% II, m. 127.degree.; 72% H2NCH(CO2H)CH2O2CNHCH2CH2Cl, m. 180.degree.; 85% H2NCH(CO2H)CH2O2CNPr2, m. 121.degree.; 95% H2NCH(CO2Me)CH2O2CN(CH2CH2Cl)2, m. 115-16.degree.; 95% H2NCH(CO2H)CHMeO2CN(CH2CH2Cl)2, m. 30.degree.. The O-[N-bis(2-chloroethyl)carbamoyl]-DL-serine Me ester-HCl series was prepd. by satg. a suspension of the corresponding **amino acid** in dry MeOH with HCl at 5.degree.. The clear soln. was evapd. to dryness

and the residue recrystd. from MeOHEt2O (yield 78%). Hydrolysis expts. on I-III were as follows. The compd. (0.1 millimole) in 50 ml. H2O kept at 37.degree. was kept from atm. CO2 by argon and the pH of the soln. kept 24 hrs. at 7.4. The results were tabulated. In the case of I the compd. was decompd. into relatively stable intermediate which itself decompd. to a 2nd intermediate which yielded serine. Similarly, III gave threonine. With PhOH as solvent, serine and the 2 preceding intermediates have Rf 0.30 and the bis(2-hydroxyethyl)carboamoyl-DL-serine has Rf 0.72. iso-Pr **chloroformate** (12.3 g.) in 40 ml. C6H6 added dropwise at 20-5.degree. to HN(CH2CH2Cl)2 in 200 ml. Et2O and washed the next morning with dil. acid, dil. NaHCO3, and H2O gave 65% VIII, b1 121-3.degree..

```
=> s l7 and amino acid carbonate?
        902658 AMINO
            41 AMINOS
        902675 AMINO
                   (AMINO OR AMINOS)
       3567624 ACID
       1359328 ACIDS
       4030256 ACID
                   (ACID OR ACIDS)
        260251 CARBONATE?
            17 AMINO ACID CARBONATE?
                   (AMINO(W)ACID(W)CARBONATE?)
L9           0 L7 AND AMINO ACID CARBONATE?

=> s amino acid carbonate?
        902658 AMINO
            41 AMINOS
        902675 AMINO
                   (AMINO OR AMINOS)
       3567624 ACID
       1359328 ACIDS
       4030256 ACID
                   (ACID OR ACIDS)
        260251 CARBONATE?
L10         17 AMINO ACID CARBONATE?
                   (AMINO(W)ACID(W)CARBONATE?)

=> s l10 and chloro?
        843927 CHLORO?
L11          1 L10 AND CHLORO?

=> d

L11  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2003 ACS
AN   1974:133784  CAPLUS
DN   80:133784
TI   Peptides. V.  Carbonates of ethyl 2-hydroximino-2-cyanoacetate and related
     compounds as esterification reagents for peptide synthesis
AU   Itoh, Masumi
CS   Res. Lab., Fujisawa Pharm. Co., Ltd., Osaka, Japan
SO   Bulletin of the Chemical Society of Japan (1974), 47(2), 471-5
     CODEN: BCSJA8; ISSN: 0009-2673
DT   Journal
LA   English


=> d abs

L11  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2003 ACS
GI   For diagram(s), see printed CA Issue.
AB   Seventeen carbonates (I, R = Et, Me, Me2CHCH2, PhCH2, allyl, aryl; R1 =
     CONH2, CO2Et, H, Me; R2 = CN, Me, COMe, CO2Et) of Et 2-hydroximino-2-
```

cyanoacetate and 2-hydroximino-2-cyanoacetamide were prepd. and utilized as esterification reagents for R3CO2H(R3CO2H = PhCO2H; PhCH2O2C-Gly-OH, PhCH2O2C-Trp-OH, H-Phe-OH, etc.) to yield R3CO2R and/or R3CO2N:CR1R2.

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=> s l10 and chlorocarbonate
          1274 CHLOROCARBONATE
           164 CHLOROCARBONATES
          1365 CHLOROCARBONATE
                 (CHLOROCARBONATE OR CHLOROCARBONATES)
L12          1 L10 AND CHLOROCARBONATE

=> d

L12  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2003 ACS
AN   1974:133784  CAPLUS
DN   80:133784
TI   Peptides. V.  Carbonates of ethyl 2-hydroximino-2-cyanoacetate and related
     compounds as esterification reagents for peptide synthesis
AU   Itoh, Masumi
CS   Res. Lab., Fujisawa Pharm. Co., Ltd., Osaka, Japan
SO   Bulletin of the Chemical Society of Japan (1974), 47(2), 471-5
     CODEN: BCSJA8; ISSN: 0009-2673
DT   Journal
LA   English


=> d his

     (FILE 'HOME' ENTERED AT 10:39:39 ON 10 MAR 2003)

     FILE 'CAPLUS' ENTERED AT 10:39:52 ON 10 MAR 2003
L1          3838 S MIXED ANHYDRIDE? OR ASYMMETRICAL ANHYDRIDE? OR UNSYMMETRICAL
L2           794 S L1 AND AMINO ACID?
L3             5 S L2 AND ORGANIC BASE
L4           128 S L2 AND (PHOSPHATE OR SULFATE OR SULPHATE OR CARBOXYLIC)
L5             5 S L4 AND AMINO ACID ANHYDRIDE?
L6          1388 S AMINO ACID? AND (CHLOROFORMATE OR CHLOROCARBONATE)
L7            58 S L6 AND (MORPHOLINE OR NMM)
L8             6 S L7 AND ADDITION
L9             0 S L7 AND AMINO ACID CARBONATE?
L10           17 S AMINO ACID CARBONATE?
L11            1 S L10 AND CHLORO?
L12            1 S L10 AND CHLOROCARBONATE

=> s l7 and preparation
       1220601 PREPARATION
         60076 PREPARATIONS
       1278084 PREPARATION
                 (PREPARATION OR PREPARATIONS)
       2239496 PREPN
        181720 PREPNS
       2379633 PREPN
                 (PREPN OR PREPNS)
       3075262 PREPARATION
                 (PREPARATION OR PREPN)
L13           57 L7 AND PREPARATION

=> s l13 and anhydride?
        187574 ANHYDRIDE?
L14           13 L13 AND ANHYDRIDE?

=> d 1-13

L14  ANSWER 1 OF 13  CAPLUS  COPYRIGHT 2003 ACS
```

AN 2002:575066 CAPLUS
DN 137:140777
TI **Preparation** of piperazinyl and hexahydro-1,4-diazepinyl **amino acid** derivatives as melanocortin receptor agonists
IN Biggers, Christopher Kelly; Briner, Karin; Doecke, Christopher William; Fisher, Matthew Joseph; Hertel, Larry Wayne; Mancoso, Vincent; Martinelli, Michael John; Mayer, John Philip; Ornstein, Paul Leslie; Richardson, Timothy Ivo; Shah, Jikesh Arvind; Shi, Qing; Wu, Zhipei; Xie, Chaoyu
PA Eli Lilly and Company, USA
SO PCT Int. Appl., 356 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002059108	A1	20020801	WO 2002-US517	20020123
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRAI US 2001-263471P P 20010123
OS MARPAT 137:140777
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2003 ACS
AN 2002:575065 CAPLUS
DN 137:140776
TI **Preparation** of piperidinyl and piperazinyl **amino acid** derivatives as melanocortin receptor agonists
IN Backer, Ryan Thomas; Briner, Karin; Doecke, Christopher William; Fisher, Matthew Joseph; Kuklish, Steven Lee; Mancuso, Vincent; Martinelli, Michael John; Mullaney, Jeffrey Thomas; Xie, Chaoyu
PA Eli Lilly and Company, USA
SO PCT Int. Appl., 263 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002059107	A1	20020801	WO 2002-US516	20020123
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRAI US 2001-263595P P 20010123
OS MARPAT 137:140776
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2003 ACS
AN 1999:819360 CAPLUS
DN 132:64524
TI **Preparation** of N-thiazolidinylcarbonylphenylalanine derivatives and analogs as inhibitors of .alpha.4.beta.1 mediated cell adhesion
IN Blinn, James R.; Chrusciel, Robert A.; Fisher, Jed F.; Tanis, Steven P.; Thomas, Edward William; Lobl, Thomas J.; Teegarden, Bradley R.
PA Pharmacia and Upjohn Company, USA; Tanabe Seiyaku Co., Ltd.
SO PCT Int. Appl., 308 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9967230	A1	19991229	WO 1999-US14233	19990623
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2342778	AA	19991229	CA 1999-2342778	19990623
AU 9947116	A1	20000110	AU 1999-47116	19990623
EP 1089989	A1	20010411	EP 1999-930614	19990623
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002518491	T2	20020625	JP 2000-555884	19990623
NZ 509010	A	20021025	NZ 1999-509010	19990623

PRAI US 1998-90421P P 19980623
WO 1999-US14233 W 19990623
OS MARPAT 132:64524
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2003 ACS
AN 1999:794364 CAPLUS
DN 132:35986
TI **Preparation** of spinosyn macrocyclic lactone aminodeoxy glycosides as insecticides and miticides
IN Deamicis, Carl Vincent; Anzeveno, Peter Biagio; Martynow, Jacek G.; McLaren, Kevin L.; Green, Frederick Richard, III; Sparks, Thomas C.; Kirst, Herbert A.; Creemer, Lawrence Camillo; Worden, Thomas V.; Schoonover, Joe Raymond, Jr.; Gifford, James Michael; Hatton, Christopher J.; Hegde, Vidyadhar B.; Crouse, Gary D.; Thoreen, Brian R.; Ricks, Michael J.
PA Dow Agrosciences LLC, USA
SO U.S., 122 pp., Cont. of U.S. Ser. No. 662,549, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 6001981	A	19991214	US 1997-968856	19971105

PRAI US 1996-662549 19960613
OS MARPAT 132:35986
RE.CNT 86 THERE ARE 86 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2003 ACS
AN 1999:464267 CAPLUS
DN 131:116517

TI **Preparation** of N-acyl-phenylalanine derivatives as inhibitors of .alpha.4-mediated cell adhesion
IN Sircar, Ila; Gudmundsson, Kristjan S.; Martin, Richard
PA Tanabe Seiyaku Co., Ltd., Japan
SO PCT Int. Appl., 243 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9936393	A1	19990722	WO 1999-US993	19990119
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2318527	AA	19990722	CA 1999-2318527	19990119
	AU 9924584	A1	19990802	AU 1999-24584	19990119
	AU 749568	B2	20020627		
	BR 9907040	A	20001017	BR 1999-7040	19990119
	EP 1049662	A1	20001108	EP 1999-904115	19990119
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2002509131	T2	20020326	JP 2000-540111	19990119
	US 6521666	B1	20030218	US 2000-619712	20000719
PRAI	US 1998-71840P	P	19980120		
	WO 1999-US993	W	19990119		

OS MARPAT 131:116517
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2003 ACS
AN 1997:613818 CAPLUS
DN 127:205889
TI **Preparation** of **amino acid** derivatives as anticonvulsants
IN Kohn, Harold L.; Watson, Darrell
PA Research Corporation Technologies, Inc., USA
SO U.S., 49 pp., Cont.-in-part of U.S. 5,378,729.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5654301	A	19970805	US 1993-3208	19930112
	AU 595538	B2	19900405	AU 1986-61766	19860821
	AU 8661766	A1	19880225		
	AU 609062	B2	19910426	AU 1987-79491	19871006
	AU 8779491	A1	19890406		
	JP 03506045	T2	19911226	JP 1990-508758	19900518
	US 5378729	A	19950103	US 1991-710610	19910604
	WO 9221648	A1	19921210	WO 1992-US4687	19920604
	W: AU, CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
PRAI	US 1985-702195	A2	19850215		
	US 1986-916254	A2	19861007		
	US 1987-80528	B2	19870731		
	US 1989-354057	B2	19890519		
	US 1989-392870	B2	19890811		
	US 1991-710610	A2	19910604		
	WO 1992-US4687	W	19920604		
	WO 1990-US2834	W	19900518		

OS MARPAT 127:205889

L14 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2003 ACS
AN 1996:637443 CAPLUS
DN 125:329473
TI **Preparation** of aminediol-containing peptide analogs as retroviral protease inhibitors
IN Gordon, Eric M.; Barrish, Joel C.; Bisacchi, Gregory S.; Sun, Chong-qing; Tino, Joseph A.; Vite, Gregory D.; Zahler, Robert
PA E. R. Squibb & Sons, Inc., USA
SO U.S., 219 pp., Cont.-in-part of U.S. Ser. No. 927,027, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5559256	A	19960924	US 1993-79978	19930625
	AU 9341659	A1	19940127	AU 1993-41659	19930630
	AU 677194	B2	19970417		
	HU 67090	A2	19950130	HU 1993-2080	19930719
	CA 2100894	AA	19940121	CA 1993-2100894	19930720
	NO 9302620	A	19940121	NO 1993-2620	19930720
	EP 580402	A2	19940126	EP 1993-305691	19930720
	EP 580402	A3	19970305		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	ZA 9305243	A	19940217	ZA 1993-5243	19930720
	CN 1085546	A	19940420	CN 1993-108954	19930720
	JP 06206857	A2	19940726	JP 1993-201016	19930720
	US 5760036	A	19980602	US 1995-455295	19950531
	US 5776933	A	19980707	US 1995-456125	19950531
PRAI	US 1992-916916		19920720		
	US 1992-927027		19920806		
	US 1993-79978		19930625		

OS MARPAT 125:329473

L14 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2003 ACS
AN 1993:255342 CAPLUS
DN 118:255342
TI **Preparation** of N-(heterocyclylcarbonyl)**amino acids** and analogs as prolyl endopeptidase inhibitors
IN Hosoda, Akihiko; Tanabe, Naoko; Nakayama, Takahide; Sekine, Yasuo; Shibata, Masahiro; Inaba, Jiro; Takasaki, Kazuhiko
PA Fujirebio, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 59 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04334357	A2	19921120	JP 1991-128256	19910502
PRAI	JP 1991-128256		19910502		

OS MARPAT 118:255342

L14 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2003 ACS
AN 1992:427149 CAPLUS
DN 117:27149
TI **Preparation** of N-[(imidazopyridylmethyl)phenylsulfonyl] **amino acids** as PAF antagonists
IN Whittaker, Mark; Miller, Andrew; Bowles, Stephen Arthur
PA British Bio-Technology Ltd., UK

SO PCT Int. Appl., 150 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9203423	A1	19920305	WO 1991-GB1392	19910815
	W: AU, CA, FI, HU, JP, KR, NO, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
	CA 2088761	AA	19920216	CA 1991-2088761	19910815
	AU 9184268	A1	19920317	AU 1991-84268	19910815
	AU 655595	B2	19950105		
	US 5180723	A	19930119	US 1991-746246	19910815
	ZA 9106467	A	19930428	ZA 1991-6467	19910815
	ZA 9106468	A	19930428	ZA 1991-6468	19910815
	EP 543858	A1	19930602	EP 1991-914348	19910815
	EP 543858	B1	20001220		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	JP 06500316	T2	19940113	JP 1991-513676	19910815
	JP 2976004	B2	19991110		
	HU 67289	A2	19950328	HU 1993-389	19910815
	AT 198197	E	20010115	AT 1991-914348	19910815
	ES 2153820	T3	20010316	ES 1991-914348	19910815
	US 5274094	A	19931228	US 1992-992269	19921214
	US 5276153	A	19940104	US 1992-990273	19921214
	NO 9300498	A	19930414	NO 1993-498	19930212
	US 5451676	A	19950919	US 1993-146302	19931101
	AU 9453090	A1	19940317	AU 1994-53090	19940107
	AU 658337	B2	19950406		
	NO 9702615	A	19970606	NO 1997-2615	19970606
	JP 11315070	A2	19991116	JP 1999-94507	19990401
	JP 3120075	B2	20001225		
PRAI	GB 1990-17878	A	19900815		
	GB 1990-18040	A	19900816		
	GB 1991-12214	A	19910606		
	GB 1991-12857	A	19910614		
	JP 1991-513676	A3	19910815		
	US 1991-745471	A1	19910815		
	US 1991-746246	A1	19910815		
	WO 1991-GB1392	A	19910815		
	US 1992-992269	A1	19921214		

OS MARPAT 117:27149

L14 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2003 ACS
AN 1991:247788 CAPLUS
DN 114:247788
TI Peptide derivatives **preparation** as retroviral protease inhibitors
IN Kempf, Dale J.; Plattner, Jacob J.; Norbeck, Daniel W.; Boyd, Steven A.; Baker, William R.; Erickson, John W.; Fung, Anthony K. L.; Crowley, Steven R.
PA Abbott Laboratories, USA
SO PCT Int. Appl., 222 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 8910752	A1	19891116	WO 1989-US2055	19890512
	W: AU, DK, JP, KR, US				
	RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
	EP 342541	A2	19891123	EP 1989-108590	19890512
	EP 342541	A3	19911106		
	R: ES, GR				
	AU 8935660	A1	19891129	AU 1989-35660	19890512
	EP 415981	A1	19910313	EP 1989-905856	19890512
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	JP 03504247	T2	19910919	JP 1989-506033	19890512
PRAI	US 1988-194678		19880513		
	WO 1989-US2055		19890512		

OS MARPAT 114:247788

L14 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2003 ACS
AN 1991:115078 CAPLUS
DN 114:115078
TI **Amino acid** transport proteins, **amino acid** analogues, assay apparatus, uses thereof for treatment and diagnosis of cancer
IN Palmer, Clive Frederick; McEvoy-Bowe, Edward; Meehan, George Victor; Piva, Terrence; Rigano, Donna; Favot, Paula; West, Michael; McCabe, Michael Grenville Peter; Miller, David John
PA Australian Commercial Research and Development Ltd., Australia
SO PCT Int. Appl., 300 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9003399	A1	19900405	WO 1989-AU427	19891002
	W: AT, AU, BB, BG, BR, CH, DE, DK, FI, GB, HU, JP, KP, KR, LK, LU, MC, MG, MW, NL, NO, RO, SD, SE, SU, US				
	RW: AT, BE, BF, BJ, CF, CG, CH, CM, DE, FR, GA, GB, IT, LU, ML, MR, NL, SE, SN, TD, TG				
	CN 1052144	A	19910612	CN 1989-108735	19890930
	AU 8943294	A1	19900418	AU 1989-43294	19891002
	EP 436612	A1	19910717	EP 1989-911006	19891002
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	JP 06504031	T2	19940512	JP 1989-510278	19891002
PRAI	AU 1988-695		19880930		
	AU 1988-713		19881003		
	AU 1989-3258		19890317		
	AU 1989-4948		19890628		
	AU 1989-5364		19890729		
	AU 1989-5611		19890804		
	AU 1989-5640		19890807		
	AU 1989-5872		19890821		
	AU 1989-6315		19890912		
	WO 1989-AU427		19891002		

OS MARPAT 114:115078

L14 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2003 ACS
AN 1990:217541 CAPLUS
DN 112:217541
TI **Preparation** and testing of peptide analogs as renin inhibitors
IN Branca, Quirico; Edenhofer, Albrecht; Gutknecht, Eva Maria; Neidhart, Werner; Ramuz, Henri; Wostl, Wolfgang
PA Hoffmann-La Roche, F., und Co. A.-G., Switz.
SO Eur. Pat. Appl., 74 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 310918	A2	19890412	EP 1988-115878	19880927
	EP 310918	A3	19901212		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				

	DK 8805232	A	19890407	DK 1988-5232	19880920
	ZA 8807322	A	19890628	ZA 1988-7322	19880929
	AU 8823307	A1	19890608	AU 1988-23307	19880930
	AU 627156	B2	19920820		
	HU 49322	A2	19890928	HU 1988-5114	19881003
	NO 8804434	A	19890407	NO 1988-4434	19881005
	FI 8804598	A	19890407	FI 1988-4598	19881006
	JP 02256658	A2	19901017	JP 1988-252886	19881006
	US 5250517	A	19931005	US 1992-879522	19920504
PRAI	CH 1987-3903		19871006		
	US 1988-254003		19881005		

OS MARPAT 112:217541

L14 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2003 ACS
AN 1989:614942 CAPLUS
DN 111:214942
TI **Preparation** of renin-inhibiting peptidylheterocycles and their intermediates for treatment of hypertension
IN Rosenberg, Saul Howard; Sham, Hing Leung; Baker, William R.; Dellaria, Joseph F., Jr.; Kempf, Dale J.
PA Abbott Laboratories, USA
SO Eur. Pat. Appl., 103 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 307837	A2	19890322	EP 1988-114867	19880912
	EP 307837	A3	19911211		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	AU 8822223	A1	19890420	AU 1988-22223	19880914
	AU 613956	B2	19910815		
	JP 01221357	A2	19890904	JP 1988-231430	19880914
	DK 8805146	A	19890317	DK 1988-5146	19880915
PRAI	US 1987-97553		19870916		
	US 1988-231869		19880816		

OS MARPAT 111:214942

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=> s amino acid and mixed anhydride? and (chloroformate or chlorocarbonate)
        902658 AMINO
            41 AMINOS
        902675 AMINO
                  (AMINO OR AMINOS)
       3567624 ACID
       1359328 ACIDS
       4030256 ACID
                  (ACID OR ACIDS)
        574782 AMINO ACID
                  (AMINO(W)ACID)
        685170 MIXED
             6 MIXEDS
        685174 MIXED
                  (MIXED OR MIXEDS)
        187574 ANHYDRIDE?
          3811 MIXED ANHYDRIDE?
                  (MIXED(W)ANHYDRIDE?)
         17403 CHLOROFORMATE
          1610 CHLOROFORMATES
         17983 CHLOROFORMATE
                  (CHLOROFORMATE OR CHLOROFORMATES)
          1274 CHLOROCARBONATE
           164 CHLOROCARBONATES
          1365 CHLOROCARBONATE
                  (CHLOROCARBONATE OR CHLOROCARBONATES)
L15         84 AMINO ACID AND MIXED ANHYDRIDE? AND (CHLOROFORMATE OR CHLOROCARB
               ONATE)

=> s l15 and easy
         74814 EASY
             1 EASIES
         74815 EASY
                  (EASY OR EASIES)
L16          0 L15 AND EASY

=> s l15 and one-step
       1637862 ONE
        136806 ONES
       1747869 ONE
                  (ONE OR ONES)
        342577 STEP
        218463 STEPS
        522120 STEP
                  (STEP OR STEPS)
         17425 ONE-STEP
                  (ONE(W)STEP)
L17          1 L15 AND ONE-STEP

=> d

L17 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS
AN  1989:57469 CAPLUS
DN  110:57469
TI  Amino acid derivatives of 2-(p-chlorophenoxy)-2-methylpropionic acid as potential antilipemic agents. I. Preparation of 1-{.alpha.-[2-(p-chlorophenoxy)-2-methylpropionylamino]-.alpha.-alkyl}acetylpyrrolidine and -piperidine
AU  Kwapiszewski, Wincenty; Borkowski, Leszek
CS  Dep. Pharm. Chem., Sch. Med., Warsaw, 02097, Pol.
SO  Acta Poloniae Pharmaceutica (1987), 44(1), 1-11
    CODEN: APPHAX; ISSN: 0001-6837
DT  Journal
LA  Polish
OS  CASREACT 110:57469

=> s l15 AND AMINE
        232109 AMINE
        219793 AMINES
        355886 AMINE
                  (AMINE OR AMINES)
L18         11 L15 AND AMINE

=> D 1-11

L18 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2003 ACS
AN  2001:392823 CAPLUS
DN  135:153090
TI  9-amino-4,5-diazafluorene-9-carboxylic acid (Daf), a new C.alpha.,.alpha.-disubstituted glycine containing a spatially constrained bipyridine-like ligand for transition metals - synthesis and evaluation of peptide-coupling conditions at its C- and N-termini
AU  Mazaleyrat, Jean-Paul; Wright, Karen; Wakselman, Michel; Formaggio, Fernando; Crisma, Marco; Toniolo, Claudio
CS  SIRCOB, ESA CNRS 8086, Universite de Versailles, Versailles, 78000, Fr.
SO  European Journal of Organic Chemistry (2001), (10), 1821-1829
    CODEN: EJOCFK; ISSN: 1434-193X
PB  Wiley-VCH Verlag GmbH
DT  Journal
```

LA English
OS CASREACT 135:153090
RE.CNT 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2003 ACS
AN 1994:107663 CAPLUS
DN 120:107663
TI Preparation of activated esters of N-alkoxycarbonylamino and other acids by a modification of the **mixed anhydride** procedure
AU Benoiton, N. Leo; Lee, Young C.; Chen, Francis M. F.
CS Dep. Biochem., Univ. Ottawa, Ottawa, ON, Can.
SO International Journal of Peptide & Protein Research (1993), 42(3), 278-83
CODEN: IJPPC3; ISSN: 0367-8377
DT Journal
LA English
OS CASREACT 120:107663

L18 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2003 ACS
AN 1992:542298 CAPLUS
DN 117:142298
TI Optically active complexes of transition metals (rhodium(I), ruthenium(II), cobalt(II) and nickel(II)) with 2-aminocarbonylpyrrolidine ligands. Selective catalysts for hydrogenation of prochiral olefins
AU Corma, A.; Iglesias, M.; Del Pino, C.; Sanchez, F.
CS Inst. Technol. Quim., UPV, Valencia, 46071, Spain
SO Journal of Organometallic Chemistry (1992), 431(2), 233-46
CODEN: JORCAI; ISSN: 0022-328X
DT Journal
LA English

L18 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2003 ACS
AN 1992:214884 CAPLUS
DN 116:214884
TI A new class of bradykinin antagonists: synthesis and in vitro activity of bissuccinimidoalkane peptide dimers
AU Cheronis, John C.; Whalley, Eric T.; Nguyen, Khe T.; Eubanks, Shad R.; Allen, Lisa G.; Duggan, Matthew J.; Loy, Sharon D.; Bonham, Kathryn A.; Blodgett, James K.
CS Cortech, Inc., Denver, CO, 80221, USA
SO Journal of Medicinal Chemistry (1992), 35(9), 1563-72
CODEN: JMCMAR; ISSN: 0022-2623
DT Journal
LA English

L18 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2003 ACS
AN 1991:247788 CAPLUS
DN 114:247788
TI Peptide derivatives preparation as retroviral protease inhibitors
IN Kempf, Dale J.; Plattner, Jacob J.; Norbeck, Daniel W.; Boyd, Steven A.; Baker, William R.; Erickson, John W.; Fung, Anthony K. L.; Crowley, Steven R.
PA Abbott Laboratories, USA
SO PCT Int. Appl., 222 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 8910752	A1	19891116	WO 1989-US2055	19890512
W: AU, DK, JP, KR, US				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
EP 342541	A2	19891123	EP 1989-108590	19890512
EP 342541	A3	19911106		
R: ES, GR				
AU 8935660	A1	19891129	AU 1989-35660	19890512
EP 415981	A1	19910313	EP 1989-905856	19890512
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 03504247	T2	19910919	JP 1989-506033	19890512
PRAI US 1988-194678		19880513		
WO 1989-US2055		19890512		

OS MARPAT 114:247788

L18 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2003 ACS
AN 1990:515877 CAPLUS
DN 113:115877
TI Method of obtaining hydroxamic acids including **amino acid** and peptide derivatives
IN Chimiak, Andrzej; Nakonieczna, Lucja
PA Politechnika Gdanska, Pol.
SO Pol., 8 pp. Abstracted and indexed from the unexamined application.
CODEN: POXXA7
DT Patent
LA Polish
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI PL 147573	B1	19890630	PL 1985-255015	19850815
PRAI PL 1985-255015		19850815		

OS MARPAT 113:115877

L18 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2003 ACS
AN 1988:38354 CAPLUS
DN 108:38354
TI **Mixed anhydrides** in peptide synthesis. A study of urethane formation with a contribution on minimization of racemization
AU Chen, Francis M. F.; Lee, Young; Steinauer, Rene; Benoiton, N. Leo
CS Dep. Biochem., Univ. Ottawa, Ottawa, ON, K1H 8M5, Can.
SO Canadian Journal of Chemistry (1987), 65(3), 613-18
CODEN: CJCHAG; ISSN: 0008-4042
DT Journal
LA English
OS CASREACT 108:38354

L18 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2003 ACS
AN 1975:572672 CAPLUS
DN 83:172672
TI Methotrexate analogs. 6. Replacement of glutamic acid by various **amino acid** esters and **amines**
AU Chaykovsky, Michael; Brown, Barbara L.; Modest, E. J.
CS Sidney Farber Cancer Cent., Boston, MA, USA
SO Journal of Medicinal Chemistry (1975), 18(9), 909-12
CODEN: JMCMAR; ISSN: 0022-2623
DT Journal
LA English

L18 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2003 ACS
AN 1972:113499 CAPLUS
DN 76:113499
TI Diaminodicarboxylic acids. III. Reactivity of R,S- and RR,SS-diaminosuccinic acids. Symmetrical and unsymmetrical derivatives
AU Biernat, Jan F.
CS Polytech. Gdansk, Gdansk, Pol.
SO Roczniki Chemii (1971), 45(12), 2081-7
CODEN: ROCHAC; ISSN: 0035-7677
DT Journal
LA English

L18 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2003 ACS

AN 1964:91243 CAPLUS
DN 60:91243
OREF 60:15980g-h,15981a-e
TI Suppression of racemization during peptide synthesis
AU Applewhite, Thomas H.; Nelson, Jane S.
CS U.S. Dept. of Agr., Albany, CA
SO Tetrahedron Letters (1964), (15-16), 819-25
DT Journal
LA Unavailable

L18 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2003 ACS
AN 1961:17629 CAPLUS
DN 55:17629
OREF 55:3457e-i,3458a-i,3459a-f
TI **Amino acids** and peptides. XV. Racemization during peptide synthesis
AU Smart, N. A.; Young, G. T.; Williams, M. W.
CS Univ. Oxford, UK
SO J. Chem. Soc. (1960) 3902-12
DT Journal
LA Unavailable

=> DA BS 2
DA IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> D ABS 2

L18 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2003 ACS
AB Generation of a **mixed anhydride** using Et or iso-Pr **chloroformate** and N-methylmorpholine in CH2Cl2 at room temp., followed by addn. of excess ring-substituted phenol or N-substituted hydroxylamine and a catalytic amt. of tertiary **amine**, provides an efficient synthesis of activated esters.